

Sequence 145, App  
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Patent No 5182196  
Sequence 3, Appli  
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29 67.5 7.1 317 3 US-08-469-318-145  
30 67.5 7.1 317 3 US-08-468-609A-145  
31 67.5 7.1 317 4 PCT-US95-01185-145  
32 66.5 7.0 231 1 US-07-656-566-3  
33 66.5 7.0 698 1 US-08-376-362A-20  
34 66 6.9 158 5 5182196-2  
35 65.5 6.9 151 1 US-07-940-605A-3  
36 65.5 6.9 151 2 US-08-690-096-3  
37 65.5 6.9 1069 1 US-07-777-715-9  
38 65.5 6.9 1069 1 US-08-170-126-4  
39 65.5 6.9 1069 3 US-08-954-418-4  
40 65 6.8 157 2 US-07-940-605A-5  
41 65 6.8 157 2 US-08-690-096-5  
42 64.5 6.8 260 1 US-08-446-922-6  
43 64.5 6.8 260 1 US-08-431-055-2  
44 64.5 6.8 260 2 US-08-249-189-2  
45 64.5 6.8 260 2 US-08-484-624A-2

ALIGNMENTS

RESULT 1  
US-08-912-227-2  
; Sequence 2, Application US/08912227  
; Patent No. 5998171  
; GENERAL INFORMATION:  
; APPLICANT: Yu, Guo-Liang  
; APPLICANT: NI, Jian  
; APPLICANT: Rosen, Craig A.  
; TITLE OF INVENTION: Human Endokine Alpha  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C  
; STREET: 1100 NEW YORK AVE., NW, SUITE 600  
; CITY: WASHINGTON  
; STATE: DC  
; COUNTRY: USA  
; ZIP: 20005-3934  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/912,227  
; FILING DATE: Herewith  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/024,058  
; FILING DATE: 16-AUG-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Steffe, Eric K.  
; REGISTRATION NUMBER: 36,688  
; REFERENCE/DOCKET NUMBER: 1488.0470001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-371-2600  
; TELEFAX: 202-371-2540  
; INFORMATION FOR SEQ. ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 169 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-912-227-2

Query Match 95.3%; Score 906; DB 2; Length 169;  
Best Local Similarity 100.0%; Pred. No. 8e-100;  
Matches 169; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 9 MPLSHRTOGAORSSKWLWLFCSIVMLFLCSFSLWLFLETAKEPCMAKFGPLPSK 68  
|||||

GenCore version 4.5  
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OM protein - protein search, using sw model  
Run on: February 23, 2001, 10:48:45 ; Search time 12.08 Seconds  
(without alignments)  
263.112 Million cell updates/sec

Title: US-09-195-368-1  
Perfect score: 951  
Sequence: 1 MCLSHLENPLSHSRTGQAQ.....VLKNNTYWGILLANPOFIS 177

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 174772 seqs, 17957048 residues 174772  
Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA: \*  
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3: /cgn2\_6/ptodata/2/iaa/6.COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/PTCUS.COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	906	95.3	169	2	US-08-912-227-2
2	77	8.1	326	3	US-08-089-397A-11
3	77	8.1	326	5	5395759-2
4	77	8.1	2763	3	US-08-496-944-2
5	75.5	7.9	550	3	US-09-039-859-9
6	74	7.8	157	4	PCT-US93-02475-6
7	73	7.7	166	3	US-08-765-381-12
8	71.5	7.5	233	1	US-08-323-445A-10
9	71.5	7.5	233	1	US-08-515-903A-10
10	71.5	7.5	233	2	US-08-912-227-3
11	71.5	7.5	233	2	US-08-230-428B-2
12	71.5	7.5	233	4	PCT-US95-12840-10
13	71.5	7.5	233	5	5422425-2
14	71	7.5	157	4	PCT-US93-02475-2
15	71	7.5	1082	1	US-08-106-493A-2
16	71	7.5	1082	1	US-08-429-264-2
17	70	7.4	157	4	PCT-US93-02475-7
18	70	7.4	1139	1	US-08-832-883-2
19	70	7.4	1139	2	US-08-832-877-2
20	69.5	7.3	984	1	US-08-257-073-3
21	69.5	7.3	984	2	US-08-184-009-120
22	69.5	7.3	984	2	US-08-458-356-120
23	68.5	7.2	166	3	US-08-765-381-4
24	68.5	7.2	166	3	US-08-765-381-6
25	68.5	7.2	558	1	US-08-333-358-12
26	68.5	7.2	558	1	US-08-463-694-12
27	68.5	7.2	558	1	US-08-694-501-12
28	68.5	7.2	3443	2	US-08-416-603-2

Db 1 MPLSHRTOGAORSSWKMLFCFSIVMLLFLCSFSLWIFIFLQLETAKEPCMAKFGPLPSK 60  
 QY 69 WQMASSEPCVNVKSDWKLEILQNGLYLIYGOVAPNANYNDVAPFEVRLYKNKMDMIQTLT 128  
 Db 61 WQMASSEPCVNVKSDWKLEILQNGLYLIYGOVAPNANYNDVAPFEVRLYKNKMDMIQTLT 120  
 QY 129 NKSQIONVGGTYELHVGDTIDLFNSEHQVLKNNTYWGIILLANPQFIS 177  
 Db 121 NKSQIONVGGTYELHVGDTIDLFNSEHQVLKNNTYWGIILLANPQFIS 169

RESULT 2  
 ; Sequence 11, Application US/08089397A  
 ; Patent No. 6086880  
 ; GENERAL INFORMATION:  
 ; APPLICANT: SABARA, MARTA I.J.  
 ; APPLICANT: FRENCHICK, PATRICK J.  
 ; APPLICANT: POTTER, ANDREW A.  
 ; APPLICANT: IJAZ, MOHAMMAD K.  
 ; APPLICANT: GILCHRIST, JAMES E.  
 ; APPLICANT: REDMOND, MARK J.  
 ; TITLE OF INVENTION: ROTAVIRUS VACCINES  
 ; NUMBER OF SEQUENCES: 24  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: MORRISON & FOERSTER  
 ; STREET: 2000 Pennsylvania Avenue, NW  
 ; CITY: Washington  
 ; STATE: DC  
 ; COUNTRY: USA  
 ; ZIP: 20006-1888  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; OPERATING SYSTEM: IBM PC compatible  
 ; SOFTWARE: Patent In Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/089,397A  
 ; FILING DATE: 07-JUL-1993  
 ; CLASSIFICATION: 530  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: ADLER, REID G.  
 ; REGISTRATION NUMBER: 30,988  
 ; REFERENCE/DOCKET NUMBER: 29311-20003.03  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (202) 887-1500  
 ; TELEFAX: (202) 887-0763  
 ; INFORMATION FOR SEQ ID NO: 11:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 326 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: unknown  
 ; TOPOLOGY: unknown  
 ; MOLECULE TYPE: protein  
 ; US-08-089-397A-11

Query Match 8.1%; Score 77; DB 3; Length 326;  
 Best Local Similarity 22.8%; Pred. No. 0.52;  
 Matches 42; Conservative 29; Mismatches 59; Indels 54; Gaps 9;

QY 26 LWLFCSIVMLLFLC-----SFSWLIIFLQLETAKEPCMAK-----FGPLPSKWQM 71  
 | : ||:| : : : ||:| : : : ||:| : : : ||:| : : :  
 Db 10 LTLISILLNYLTKITNTMDYIIFRELLIALISPFVTONYGMVLPITGSLDAVYTN 69

QY 72 ASSEPP-----CV-----NKVSDWKLEILQNGLYLIYGOVAPNA---NYNDVAPFEV 115  
 :||:| : : : ||:| : : : ||:| : : : ||:| : : :  
 Db 70 STSGPEFLTSTLCLYPAEAKNEISDDEWNTLSQLFLTKGPIGVSFYFKDYNDINTFSV 129

QY 116 --RLYKNKMDIOTLNKSKIONVGGTYELHVGDTIDLFNSEHQVLKNNTYWGIILLANP 173  
 :||:| : : : ||:| : : : ||:| : : : ||:| : : :  
 Db 130 NPOLYCDYNVV-----LMRYDNTSELDASELADILNE-----W-----LCNP 167

QY 174 QFIS 177  
 ||  
 Db 168 MDIS 171

RESULT 3  
 5395759-2  
 ; Patent No. 5395759  
 ; APPLICANT: HOLMES, IAN H.; DYALL-SMITH, MICHAEL L.  
 ; TITLE OF INVENTION: DNA SEQUENCES AND AMINO ACID SEQUENCE  
 ; ENCODING THE HUMAN ROTAVIRUS MAJOR OUTER CAPSID GLYCOPROTEIN  
 ; NUMBER OF SEQUENCES: 14  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/07/474,642  
 ; FILING DATE: 29-APR-1985  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 824,704  
 ; FILING DATE: 04-FEB-1987  
 ; SEQ ID NO: 2:  
 ; LENGTH: 326  
 ; 5395759-2

Query Match 8.1%; Score 77; DB 5; Length 326;  
 Best Local Similarity 22.8%; Pred. No. 0.52;  
 Matches 42; Conservative 29; Mismatches 59; Indels 54; Gaps 9;

QY 26 LWLFCSIVMLLFLC-----SFSWLIIFLQLETAKEPCMAK-----FGPLPSKWQM 71  
 | : ||:| : : : ||:| : : : ||:| : : : ||:| : : :  
 Db 10 LTLISILLNYLTKITNTMDYIIFRELLIALISPFVTONYGMVLPITGSLDAVYTN 69

QY 72 ASSEPP-----CV-----NKVSDWKLEILQNGLYLIYGOVAPNA---NYNDVAPFEV 115  
 :||:| : : : ||:| : : : ||:| : : : ||:| : : :  
 Db 70 STSGPEFLTSTLCLYPAEAKNEISDDEWNTLSQLFLTKGPIGVSFYFKDYNDINTFSV 129

QY 116 --RLYKNKMDIOTLNKSKIONVGGTYELHVGDTIDLFNSEHQVLKNNTYWGIILLANP 173  
 :||:| : : : ||:| : : : ||:| : : : ||:| : : :  
 Db 130 NPOLYCDYNVV-----LMRYDNTSELDASELADILNE-----W-----LCNP 167

QY 174 QFIS 177  
 ||  
 Db 168 MDIS 171

RESULT 4  
 US-08-496-944-2  
 ; Sequence 2, Application US/08496944  
 ; Patent No. 6040496  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Law, Marcus D  
 ; APPLICANT: Dietz, Jon M  
 ; TITLE OF INVENTION: Use of Translationally altered RNA to  
 ; TITLE OF INVENTION: Confer Resistance to Maize Dwarf Mosaic Virus and Other  
 ; TITLE OF INVENTION: Monocotyledonous Plant Viruses  
 ; NUMBER OF SEQUENCES: 8  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: CIBA-Geigy Corporation  
 ; STREET: 7 Skyline Drive  
 ; CITY: Hawthorne  
 ; STATE: NY  
 ; COUNTRY: USA  
 ; ZIP: 10532  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.30B  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/496,944  
 ; FILING DATE:  
 ; CLASSIFICATION: 435  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Elmer, James Scott

REGISTRATION NUMBER: 36,129  
REFERENCE/DOCKET NUMBER: CCC 1814  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2763 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-496-944-2

Query Match 8.1%; Score 77; DB 3; Length 2763;  
Best Local Similarity 25.0%; Pred. No. 13;  
Matches 31; Conservative 20; Mismatches 53; Indels 20; Gaps 5;  
QY 51 LETAKEPCMAKFGPLPSKQWASSPPCKVKNKVDWKLLEILONGLYLYIGQVAPNANDV 110  
DB 18 IQFIKERCNPKFSLPTLQVAETIGHYTDNQSKQIMDV-SEALIKVNTLTPDDAMKASA 76  
QY 111 APPEV-RLYNK-----DMIQTLTNKSKIONVGCTYELHVGDTIDLIIFNSEHGVKLN-N 162  
DB 77 ALLEVSRYKNRRESLTKDSLESFRNK-----ISPKSTINAALMCDNQDLKNNAN 125  
QY 163 TYWG 166  
DB 126 FVWG 129

RESULT 5  
US-09-039-859-9  
Sequence 9, Application US/09039859  
Patent No. 6063987  
GENERAL INFORMATION:  
APPLICANT: Daub, Margaret E.  
APPLICANT: Ehrenschaft, Marilyn  
APPLICANT: Jenns, Ann E.  
TITLE OF INVENTION: Isolated Genes and Proteins Encoding  
TITLE OF INVENTION: Resistance to Photosensitizers  
NUMBER OF SEQUENCES: 11  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Virginia C. Bennett  
STREET: PO Box 37428  
CITY: Raleigh  
STATE: No. 6063987th Carolina  
COUNTRY: US  
ZIP: 27627  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/039,859  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Bennett, Virginia C.  
REGISTRATION NUMBER: 37,092  
REFERENCE/DOCKET NUMBER: 5405.333  
TELEPHONE: 919-854-1400  
TELEFAX: 919-854-1401  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 550 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-039-859-9

Query Match 7.9%; Score 75.5; DB 3; Length 550;  
Best Local Similarity 18.5%; Pred. No. 1.7;

Matches 43; Conservative 33; Mismatches 55; Indels 101; Gaps 13;  
QY 12 SHSRTOGAQRSSWKLWLF-----SIVMLFL---GSFSLWLIIFLOLETAKEPCMAKFGPL 65  
DB 188 SYSEVEG-----WRAWLGCHVLSVSMALFMRKSMNTASWT-----EQHQAR--LMLQYSPL 236  
QY 66 ---PSKW-----OMASSEP--PCVNKVSQWKLLEI- 89  
DB 237 NADSDRWLAQYIRAERLCEEVSEQVDLTNTSFYRDVADPATRNPVQTCRNKILNKMGPV 296  
QY 90 ---LQNGLYLYIGQVAPNANDVAPFEVRLYKNKMDIOTLTNKSKI----- 133  
DB 297 QRLRSPLIMFWBHA-----TAYMHEPVLHTATNKDSFTTAPYLAERLSLTDF 343  
QY 134 -----QWVGTYEL--HVGDTIDLIIFNSEHGVKLNNTYWGIIILLANPOFI 176  
DB 344 PPLVLTQDHTAVYELTAQVAVQVLDIFINYDTK-----SLVASPSLV 385

RESULT 6  
PCT-US93-02475-6  
Sequence 6, Application PC/TUS9302475  
GENERAL INFORMATION:  
APPLICANT: Wisnieski, Bernadine J. Factor with Modified  
TITLE OF INVENTION: Tumor Necrosis  
TITLE OF INVENTION: Ion Channel  
NUMBER OF SEQUENCES: 13  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Donald G. Lewis  
STREET: 8328 Regents Road #1E  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 M storage  
COMPUTER: VE System 386  
OPERATING SYSTEM: MS-DOS 5  
SOFTWARE: Word Perfect  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US93/02475  
FILING DATE: 19930412  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/852,625  
FILING DATE: 12 March 1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Donald G. Lewis  
REGISTRATION NUMBER: 28636  
REFERENCE/DOCKET NUMBER: BJW-2  
TELEPHONE: (619) 554-2421  
TELEFAX: (619) 554-6312  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 157 amino acids  
TYPE: AMINO ACIDS  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Tumor Necrosis Factor (feline)  
PUBLICATION INFORMATION:  
AUTHORS: McGraw, R. A., Coffee, B.W., Otto,  
AUTHORS: C.M., Drews, R.T. and Rawling, C.A.  
TITLE: Gene Sequence of Feline Tumor Necrosis  
TITLE: Factor  
JOURNAL: Nucleic Acids Research  
VOLUME: 18  
PAGES: 5564  
DATE: 1990  
RELEVANT RESIDUES IN SEQ ID NO: 6: 1-157  
PCT-US93-02475-6

Query Match 7.8%; Score 74; DB 4; Length 157;  
 Best Local Similarity 24.4%; Pred. No. 0.4;  
 Matches 30; Conservative 21; Mismatches 32; Indels 40; Gaps 6;

QY 81 KVSQKLEILQNGLYLYGVQV-----APNANY---NDVAPFEVRLYKKNKMIQTLTNKS 131  
 DB 42 ELTDNQLKVPDGLYLYISQVLTFTGGCPSTHLLTHAISREAVSYQTKVNLLSAI--KS 99  
 QY 132 KIQN-----VGGTYELHVGDITD-----LIFNSEHOVLKNNYWC 167  
 DB 100 PCQRETPEGAEAKPWEPIYLGGVFQLEKGRSLSTEINLPAYLDFAESGV-----YFGI 154  
 QY 168 ILL 170  
 DB 155 IAL 157

RESULT 7  
 US-08-765-381-12  
 ; Sequence 12, Application US/08765381  
 ; Patent No. 6083724  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Commonwealth Scientific and Industrial Research Organisation  
 ; TITLE OF INVENTION: No. 6083724el avian cytokines and genetic  
 ; NUMBER OF SEQUENCES: sequences encoding same  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Scully Scott Murphy and Presser  
 ; STREET: 400 Garden City Plaza  
 ; CITY: Garden City, New York  
 ; STATE: New York  
 ; COUNTRY: UNITED STATES OF AMERICA  
 ; ZIP: 11530

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08765,381  
 FILING DATE: 19-DEC-1996  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: AU PN1542/95  
 FILING DATE: 06-MAR-1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: PCT/AU96/00114  
 FILING DATE: 05-MAR-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: PRESSER, LEOPOLD  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 1-516-742-4343  
 TELEFAX: 1-516-742-4366  
 INFORMATION FOR SEQ ID NO: 12:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 166 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 HYPOTHETICAL: NO  
 ORIGINAL SOURCE:  
 ORGANISM: ovine  
 US-08-765-381-12

Query Match 7.7%; Score 73; DB 3; Length 166;  
 Best Local Similarity 27.7%; Pred. No. 0.57;  
 Matches 38; Conservative 22; Mismatches 49; Indels 28; Gaps 7;

QY 22 SSKWLWLFCSIVMLFLCFSWLIIFITFLOLETAKE-----PCMAKFGPLPSKWQMASSE 75  
 DB 5 SSFTALLLC--VLLGSGSVGGQGF-FKEIENLKYEINAFNPDVAKGGPLFSE----- 54

QY 76 PPCVNVKVSQWKLE-----ILONGLYLYGVQVAPNANYNDVAPFEVRLYKKNKMIQTLTNKS 131  
 DB 55 -----ILKNWKESSDKKILIQSIVSFYFKLFENLKNDOVIORSMDIIK-QDMFOKFLNGS 108  
 QY 132 --KIONVGGTYELHVGD 146  
 DB 109 SEKLEDFKRLIQIPVDD 125

RESULT 8  
 US-08-323-445A-10  
 ; Sequence 10, Application US/08323445A  
 ; Patent No. 5763733  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Whitlow, Marc  
 ; APPLICANT: Filipula, David  
 ; APPLICANT: Shorr, Robert  
 ; TITLE OF INVENTION: Antigen-Binding Fusion Proteins  
 ; NUMBER OF SEQUENCES: 19  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Sterne, Kessler, Goldstein & Fox  
 ; STREET: 1100 New York Avenue, Suite 600  
 ; CITY: Washington  
 ; STATE: DC  
 ; COUNTRY: USA  
 ; ZIP: 20005  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/323,445A  
 ; FILING DATE: 13-Oct-1994  
 ; CLASSIFICATION: 424  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Bugalsky, Lawrence B.  
 ; REGISTRATION NUMBER: 35,086  
 ; REFERENCE/DOCKET NUMBER: 0977.2060000  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (202) 371-2600  
 ; TELEFAX: (202) 371-2540  
 ; INFORMATION FOR SEQ ID NO: 10:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 233 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-323-445A-10

Query Match 7.5%; Score 71.5; DB 1; Length 233;  
 Best Local Similarity 20.6%; Pred. No. 1.4;  
 Matches 51; Conservative 27; Mismatches 57; Indels 113; Gaps 12;

QY 7 ENMPLSHSRTOGAORSSWKLWLFCSIVMLFLCFSWLIIF-----IFLOLETAKEPCMAK 61  
 DB 15 EALPKKTGGPGQSGRR-----CLFLSLFSLIVAGATTIF-----CLLH 52  
 QY 62 FG-----PLPSKWQMAS-----SEPPCVNVKVS----- 83  
 DB 53 FGVIQFQRESPRDLISLPLAQAVRSSRTPSDKPVAVHVAHQAEQGLWLNRRANAL 112  
 QY 84 -----DWKLEILQNGLYLYGVQV-----APNANY---NDVAPFEVRLYKKNKMIQTL 126  
 DB 113 LANGVELRDNQLVVPSEGLYLYISQVLFKQGCPCSTHLLTHITISRIAVSYQTKVNLLSA 172  
 QY 127 LTNKSIQN-----VGGTYELHVGDITD-----LIFNSEHOVLKNN 162  
 DB 173 I--KSPCQRETPEGAEAKPWEPIYLGGVFQLEKGRSLSTEINLPAYLDFAESGV----- 226  
 QY 163 TYWGIILL 170

us-09-195-368-1.ral

Fri Feb. 23 10:49:07 2001

Sequence 3, Application US/08912227  
 Patent No. 5998171  
 GENERAL INFORMATION:  
 APPLICANT: Yu, Guo-Liang  
 APPLICANT: Ni, Jian  
 APPLICANT: Rosen, Craig A.  
 TITLE OF INVENTION: Human Endokine Alpha  
 NUMBER OF SEQUENCES: 10  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
 STREET: 1100 NEW YORK AVE., NW, SUITE 600  
 CITY: WASHINGTON  
 STATE: DC  
 COUNTRY: USA  
 ZIP: 20005-3934  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent in Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/912,227  
 FILING DATE: Herewith  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 60/024,058  
 FILING DATE: 16-AUG-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Steffe, Eric K.  
 REGISTRATION NUMBER: 36,688  
 REFERENCE/DOCKET NUMBER: 1488.0470001  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 202-371-2600  
 TELEFAX: 202-371-2540  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 233 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: not relevant  
 TOPOLOGY: not relevant  
 MOLECULE TYPE: protein  
 US-08-912-227-3

Query Match 7.5%; Score 71.5; DB 2; Length 233;  
 Best Local Similarity 20.6%; Pred. No. 1.4;  
 Matches 51; Conservative 27; Mismatches 57; Indels 113; Gaps 12;

QY 7 ENPLSHSRTOGAORSSWKLWLFCSIVMLLFLCSFWLIF-----IFLQLETAKEPCMAK 61  
 Db 15 EALPKTKGGPGGSR-----CLFLSLFSLIVAGATTLF-----CLLH 52  
 QY 62 FG-----PLPSKWOMAS---SEPPCVNKVS----- 83  
 Db 53 FGVIGPQRESPRDLISLPLAQAVRSSRTPSDKPAHVAVNPAEQGLQWLNRNAL 112  
 QY 84 -----DNKLEILONGLYLIYGV-----APNANY---NDVAPFEVRLYKKNMIQT 126  
 Db 113 LANGVELDNOLVVPSEGLYLIYSQVLFKGGCPSTHLLTHTISRIAVSYQTKVNLISA 172  
 QY 127 LTNKSKION-----VGGTYELHVGDITID-----LIENSEHOVLKNN 162  
 Db 173 I--KSPCQRETPGEAKPWPTEPIYLGGVFQLEKGRDLSAEINRPDYLDFAESGV----- 226  
 QY 163 TYWGIIIL 170  
 Db 227 -YFGIIAL 233

RESULT 11  
 US-08-230-4288-2  
 ; Sequence 2, Application US/082304288  
 ; Patent No. 5998378

Db 227 -YFGIIAL 233  
 RESULT 9  
 US-08-515-903A-10  
 Sequence 10, Application US/08515903A  
 Patent No. 5767260  
 GENERAL INFORMATION:  
 APPLICANT: Whitlow, Marc  
 APPLICANT: Flippula, David  
 APPLICANT: Shorr, Robert  
 TITLE OF INVENTION: Antigen-Binding Fusion Proteins  
 NUMBER OF SEQUENCES: 19  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.  
 STREET: 1100 New York Avenue, Suite 600  
 CITY: Washington  
 STATE: DC  
 COUNTRY: USA  
 ZIP: 20005-3934  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent in Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/515,903A  
 FILING DATE: 16-AUG-1995  
 CLASSIFICATION: 536  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Goldstein, Jorge A.  
 REGISTRATION NUMBER: 29,021  
 REFERENCE/DOCKET NUMBER: 0977.2060001  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 TELEFAX: (202) 371-2540  
 INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 233 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-515-903A-10

Query Match 7.5%; Score 71.5; DB 1; Length 233;  
 Best Local Similarity 20.6%; Pred. No. 1.4;  
 Matches 51; Conservative 27; Mismatches 57; Indels 113; Gaps 12;

QY 7 ENPLSHSRTOGAORSSWKLWLFCSIVMLLFLCSFWLIF-----IFLQLETAKEPCMAK 61  
 Db 15 EALPKTKGGPGGSR-----CLFLSLFSLIVAGATTLF-----CLLH 52  
 QY 62 FG-----PLPSKWOMAS---SEPPCVNKVS----- 83  
 Db 53 FGVIGPQRESPRDLISLPLAQAVRSSRTPSDKPAHVAVNPAEQGLQWLNRNAL 112  
 QY 84 -----DNKLEILONGLYLIYGV-----APNANY---NDVAPFEVRLYKKNMIQT 126  
 Db 113 LANGVELDNOLVVPSEGLYLIYSQVLFKGGCPSTHLLTHTISRIAVSYQTKVNLISA 172  
 QY 127 LTNKSKION-----VGGTYELHVGDITID-----LIENSEHOVLKNN 162  
 Db 173 I--KSPCQRETPGEAKPWPTEPIYLGGVFQLEKGRDLSAEINRPDYLDFAESGV----- 226  
 QY 163 TYWGIIIL 170  
 Db 227 -YFGIIAL 233

RESULT 10  
 US-08-912-227-3

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; GENERAL INFORMATION:
; APPLICANT: Kriegl, Michael
; APPLICANT: Perez, Carl
; APPLICANT: Halenbeck, Robert F.
; APPLICANT: Jewell, David A.
; APPLICANT: Roths, Kirston E.
; TITLE OF INVENTION: Compositions For The Inhibition Of TNF
; TITLE OF INVENTION: Hormone Formation And Uses Thereof (As Amended)
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CHIRON CORPORATION Intellectual Property - R440
; STREET: 4560 Horton Street, P.O. Box 8097
; CITY: Emeryville
; STATE: California
; COUNTRY: United States of America
; ZIP: 94662-8097
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/230.428B
; FILING DATE: 19-APR-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/905,546
; FILING DATE: 25-JUN-1992
; APPLICATION DATA:
; APPLICATION NUMBER: 07/395,253
; FILING DATE: 16-AUG-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Savereide, Paul B.
; REGISTRATION NUMBER: 36,914
; REFERENCE/DOCKET NUMBER: 0820.004
; TELEPHONE: (510) 601-2718
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 233 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-230-428B-2

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Query Match      7.5%; Score 71.5; DB 2; Length 233;
Best Local Similarity 20.6%; Pred. No. 1.4;
Matches 51; Conservative 27; Mismatches 57; Indels 113; Gaps 12;

QY 7 ENPLSHSRTOGAQRSSWKLWFLCSIVMLLFLCSFSLIF-----IFLQLETAKEPCMAK 61
Db 15 EALPKRTGGPGGSR-----CLFLSLFSLIVAGATTLP-----CLLH 52
QY 62 FG-----PLPSKWQMAS-----SEPPCVNKVS----- 83
Db 53 FGVIGPQRESPRDLISPLAQAVRSSRTPSDKPVAVHVNPAQEGQLWLNRRANAL 112
QY 84 -----DWKLEILONGLYLIYGOV-----APNANY-----NDVAFPEVRLYKNDMIOT 126
Db 113 LANGVELRDNLVPSSEGLYLYSOVLFGKGCPSHTVLLTHTISRIAVSYQTKVNLSSA 172
QY 127 LTNKSKION-----VGGTYELHVGDTID-----LIFNSEHQVLKNN 162
Db 173 I-KSPQORETPEGAEPKWPVEPIYLGQVFLKGRDLSAEINRPDYLDFAESGOV----- 226
QY 163 TYWGIILL 170
Db 227 -YFGIALL 233

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RESULT 12

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QY 163 TYWGIILL 170
Db 227 -YFGIALL 233

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PCT-US95-12840-10
; Sequence 10, Application PC/TUS9512840
; GENERAL INFORMATION:
; APPLICANT: ENZON, INC.
; TITLE OF INVENTION: Antigen-Binding Fusion Proteins
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/12840
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/323,445
; FILING DATE: 13-OCT-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldstein, Jorge A.
; REGISTRATION NUMBER: 29,021
; REFERENCE/DOCKET NUMBER: 0977.206PC00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 233 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US95-12840-10

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Query Match      7.5%; Score 71.5; DB 4; Length 233;
Best Local Similarity 20.6%; Pred. No. 1.4;
Matches 51; Conservative 27; Mismatches 57; Indels 113; Gaps 12;

QY 7 ENPLSHSRTOGAQRSSWKLWFLCSIVMLLFLCSFSLIF-----IFLQLETAKEPCMAK 61
Db 15 EALPKRTGGPGGSR-----CLFLSLFSLIVAGATTLP-----CLLH 52
QY 62 FG-----PLPSKWQMAS-----SEPPCVNKVS----- 83
Db 53 FGVIGPQRESPRDLISPLAQAVRSSRTPSDKPVAVHVNPAQEGQLWLNRRANAL 112
QY 84 -----DWKLEILONGLYLIYGOV-----APNANY-----NDVAFPEVRLYKNDMIOT 126
Db 113 LANGVELRDNLVPSSEGLYLYSOVLFGKGCPSHTVLLTHTISRIAVSYQTKVNLSSA 172
QY 127 LTNKSKION-----VGGTYELHVGDTID-----LIFNSEHQVLKNN 162
Db 173 I-KSPQORETPEGAEPKWPVEPIYLGQVFLKGRDLSAEINRPDYLDFAESGOV----- 226
QY 163 TYWGIILL 170
Db 227 -YFGIALL 233

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RESULT 13

5422425-2

Patent No. 5422425

APPLICANT: KRIEGLER, MICHAEL; NITECKI, DANUTE E.

TITLE OF INVENTION: METHODS FOR THE IDENTIFICATION OF CYTOKINE

CONVERTASE INHIBITORS

us-09-195-368-1.rai

Fri Feb 23 10:49:07 2001

LENGTH: 157 amino acids  
 TYPE: AMINO ACIDS  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 FEATURE:  
 NAME/KEY: Tumor Necrosis Factor (porcine)  
 OTHER INFORMATION: A blank residue designated by "Xaa" is inserted after residue No. 7 of porcine  
 OTHER INFORMATION: TNF and the sequence numbering is augmented by 1  
 OTHER INFORMATION: starting with residue No. 8 in order to maximize  
 OTHER INFORMATION: the sequence homology with human TNF.  
 PUBLICATION INFORMATION:  
 AUTHORS: Pauli, U. Beutler, B., and Peterhans, S.  
 TITLE: porcine Tumor Necrosis Factor--Cloning with  
 TITLE: the Polymerase Chain Reaction and Determination of  
 TITLE: the Nucleotide Sequence  
 JOURNAL: Gene  
 VOLUME: 81  
 PAGES: 185-191  
 DATE: 1989  
 RELEVANT RESIDUES IN SEQ ID NO: 2: 1-157 (includes  
 RELEVANT RESIDUES IN SEQ ID NO: one blank)  
 PCT-US93-02475-2

Query Match 7.5%; Score 71; DB 4; Length 157;  
 Best Local Similarity 23.9%; Pred. No. 0.9;  
 Matches 33; Conservative 19; Mismatches 44; Indels 42; Gaps 7;

QY 68 KWOMASPEPCVN--KVDWKLEILONGLYLIYGV-----APNANY---NDVAPFEVR 116  
 DB 27 QWQSGYANALLANGVKLNQVPTDGLYLIYSQVLFKRGCGPSTNVFLTHITISRIAS 86  
 QY 117 LYKNKDMITLTNKSQIQN-----VGGTYELHVGDTID-----LIF 152  
 DB 87 YQTKVNLLSAI--KSPCORETPGEAKWPYELGGVFOLEKDRLSAEINLPDYLDF 144  
 QY 153 NSEHOVLKNTYWGIIIL 170  
 DB 145 AESGV-----YFGIIL 157

RESULT 15  
 US-08-106-493A-2  
 Sequence 2, Application US/08106493A  
 Patent No. 5457049  
 GENERAL INFORMATION:  
 APPLICANT: Antonio Giordano  
 TITLE OF INVENTION: "TUMOR SUPPRESSOR PROTEIN PRE2,  
 TITLE OF INVENTION: RELATED GENE PRODUCTS, AND DNA ENCODING  
 NUMBER OF SEQUENCES: 4  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Temple University Of The Commonwealth  
 ADDRESSEE: System of Higher Education  
 STREET: 406 University Services Building  
 CITY: Philadelphia  
 STATE: Pennsylvania  
 COUNTRY: U.S.A.  
 ZIP: 19122  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.50 inch, 720 kb  
 COMPUTER: IBM PS/2  
 OPERATING SYSTEM: MS-DOS  
 SOFTWARE: WordPerfect 5.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/106,493A  
 FILING DATE: August 12, 1993  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:

NUMBER OF SEQUENCES: 12  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/53,558  
 FILING DATE: 26-APR-1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 562,720  
 FILING DATE: 06-AUG-1990  
 SEQ ID NO: 2  
 LENGTH: 233  
 5422425-2

Query Match 7.5%; Score 71.5; DB 5; Length 233;  
 Best Local Similarity 20.6%; Pred. No. 1.4;  
 Matches 51; Conservative 27; Mismatches 57; Indels 113; Gaps 12;  
 QY 7 ENPLSHRTGQAGRSSKWLWFCISIVMLFLCFSFWLIF-----IFFLOETAKPEPCMAK 61  
 DB 15 EALPKKTGGPGSRR-----CLFLSLFSLIVAGATTTLF-----CLLH 52  
 QY 62 FG-----PLPSKQMAS--SEPPCVNKVS----- 83  
 DB 53 FGVIQPRESPRLSLISPLAQAVRSSRTPSDKPVHVVANFQAEQGQLWLNRRANAL 112  
 QY 84 -----DWKLEILONGLYLIYGV-----APNANY---NDVAPFEVRLYKNKDMIO 126  
 DB 113 LANGVELRDNLVFPSEGLYLIYSQVLFKRGCGPSTNVFLTHITISRIASVYQTKVNLLSA 172  
 QY 127 LTNKSQIQN-----VGGTYELHVGDTID-----LIFNSEHOVLKNN 162  
 DB 173 I--KSPCORETPGEAKWPYELGGVFOLEKDRLSAEINRPDYLDFAESQV----- 226  
 QY 163 TYWGIILL 170  
 DB 227 -YFGIIL 233

RESULT 14  
 PCT-US93-02475-2  
 Sequence 2, Application PC/TUS9302475  
 GENERAL INFORMATION:  
 APPLICANT: Wisniewski, Bernadine J.  
 TITLE OF INVENTION: Tumor Necrosis Factor with Modified  
 TITLE OF INVENTION: Ion Channel  
 NUMBER OF SEQUENCES: 13  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Donald G. Lewis  
 STREET: 8328 Regents Road #1E  
 CITY: San Diego  
 STATE: California  
 COUNTRY: USA  
 ZIP: 92122  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.5 inch, 1.44 M storage  
 COMPUTER: VE System 386  
 OPERATING SYSTEM: MS-DOS 5  
 SOFTWARE: Word Perfect  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US93/02475  
 FILING DATE: 19930412  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/852,625  
 FILING DATE: 12 March 1992  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Donald G. Lewis  
 REGISTRATION NUMBER: 28636  
 REFERENCE/DOCKET NUMBER: BJW-2  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (619) 554-2421  
 TELEFAX: (619) 554-6312  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:

NAME: Mullins, J.G.  
 REGISTRATION NUMBER: 33,073  
 REFERENCE/DOCKET NUMBER: 6056-188  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (215) 568-8383  
 TELEFAX: (215) 568-5549  
 TELEX: No. 5457049e  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1082 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 US-08-106-493A-2

Query Match  
 Best Local Similarity 7.5%; Score 71; DB 1; Length 1082;  
 Matches 39; Conservative 20; Mismatches 50; Indels 70; Gaps 7;

QY	30	CSIVMLLFLCSFSLIF	-----LQLETAKEPCM	59
Db	138	CTVSEIFHFC---WMLFIYAKGNFPMISDDLVSNSYHLLLCALDLVYGNALQCSNRKELVN	194	
QY	60	AKFGPLP-----SKQMASSEPCVKNKSDWKLEILQNGLYLIYGQVAPNANYNDVAPPEV	115	
Db	195	PNFKGLSEDFHAKDSKPSDPPCIIE-----KLCSLHDGLVL-----EAKGIKEHFHWPYIR	246	
QY	116	RLYKNKDMTQTLTNKSKTONVGG-----TYELHVGDTIDLIFNSE	155	
Db	247	KLYERKLL-----KGKEENLTGFLEPGNCESEFKAINKAYEYVLVSGNLDERIFLGE	299	

Search completed: February 23, 2001, 10:49:31  
 Job time: 46 sec